RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/684,796
Source: IFW0
Date Processed by STIC: 5/13/05

ENTERED

IFWO

RAW SEQUENCE LISTING DATE: 05/13/2005
PATENT APPLICATION: **US/10/684,796** TIME: 10:06:30

Input Set : **D:\Seqlist.txt**
Output Set: **N:\CRF4\05122005\J684796.raw**

```
 4 <110> APPLICANT: Garman, Jonathan
 5       Lu, Peter
 7 <120> TITLE OF INVENTION: MODULATION OF SIGNALING PATHWAYS
 9 <130> FILE REFERENCE: VITA-019
11 <140> CURRENT APPLICATION NUMBER: 10/684,796
12 <141> CURRENT FILING DATE: 2003-10-14
14 <150> PRIOR APPLICATION NUMBER: 60/418,042
15 <151> PRIOR FILING DATE: 2002-10-11
17 <150> PRIOR APPLICATION NUMBER: 60/426,212
18 <151> PRIOR FILING DATE: 2002-11-14
20 <150> PRIOR APPLICATION NUMBER: US02/24655
21 <151> PRIOR FILING DATE: 2002-08-02
23 <150> PRIOR APPLICATION NUMBER: 60/309,841
24 <151> PRIOR FILING DATE: 2001-08-03
26 <150> PRIOR APPLICATION NUMBER: 60/360,061
27 <151> PRIOR FILING DATE: 2002-02-25
29 <150> PRIOR APPLICATION NUMBER: 10/080,273
30 <151> PRIOR FILING DATE: 2002-02-19
32 <150> PRIOR APPLICATION NUMBER: 60/269,523
33 <151> PRIOR FILING DATE: 2001-02-16
35 <150> PRIOR APPLICATION NUMBER: 09/724,553
36 <151> PRIOR FILING DATE: 2000-11-28
38 <150> PRIOR APPLICATION NUMBER: 09/570,118
39 <151> PRIOR FILING DATE: 2000-05-12
41 <150> PRIOR APPLICATION NUMBER: 60/134,114
42 <151> PRIOR FILING DATE: 1999-05-14
44 <160> NUMBER OF SEQ ID NOS: 886
46 <170> SOFTWARE: FastSEQ for Windows Version 4.0
48 <210> SEQ ID NO: 1
49 <211> LENGTH: 5
50 <212> TYPE: PRT
51 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: Synthetic polymer
56 <400> SEQUENCE: 1
57 Gly Gly Gly Gly Ser
58  1               5
61 <210> SEQ ID NO: 2
62 <211> LENGTH: 14
63 <212> TYPE: PRT
64 <213> ORGANISM: Artificial Sequence
66 <220> FEATURE:
67 <223> OTHER INFORMATION: Synthetic polymer
```

RAW SEQUENCE LISTING DATE: 05/13/2005
PATENT APPLICATION: US/10/684,796 TIME: 10:06:30

Input Set : D:\Seqlist.txt
Output Set: N:\CRF4\05122005\J684796.raw

```
69 <400> SEQUENCE: 2
70 Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Val Asp
71  1               5                  10
74 <210> SEQ ID NO: 3
75 <211> LENGTH: 18
76 <212> TYPE: PRT
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Synthetic polymer
82 <400> SEQUENCE: 3
83 Lys Glu Ser Gly Ser Val Ser Ser Glu Gln Leu Ala Gln Phe Arg Ser
84  1               5                  10                  15
85 Leu Asp
89 <210> SEQ ID NO: 4
90 <211> LENGTH: 13
91 <212> TYPE: PRT
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Synthetic polymer
97 <400> SEQUENCE: 4
98 Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly
99  1               5                  10
102 <210> SEQ ID NO: 5
103 <211> LENGTH: 225
104 <212> TYPE: PRT
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: Synthetic polymer
110 <400> SEQUENCE: 5
111 Met Ser Pro Ile Leu Gly Tyr Trp Lys Ile Lys Gly Leu Val Gln Pro
112  1               5                  10                  15
113 Thr Arg Leu Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu His Leu
114             20                  25                  30
115 Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu
116         35                  40                  45
117 Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Lys
118     50                  55                  60
119 Leu Thr Gln Ser Met Ala Ile Ile Arg Tyr Ile Ala Asp Lys His Asn
120 65                  70                  75                  80
121 Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Glu
122                 85                  90                  95
123 Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Ser
124             100                 105                 110
125 Lys Asp Phe Glu Thr Leu Lys Val Asp Phe Leu Ser Lys Leu Pro Glu
126         115                 120                 125
127 Met Leu Lys Met Phe Glu Asp Arg Leu Cys His Lys Thr Tyr Leu Asn
128     130                 135                 140
129 Gly Asp His Val Thr His Pro Asp Phe Met Leu Tyr Asp Ala Leu Asp
130 145                 150                 155                 160
```

RAW SEQUENCE LISTING DATE: 05/13/2005
PATENT APPLICATION: US/10/684,796 TIME: 10:06:30

Input Set : D:\Seqlist.txt
Output Set: N:\CRF4\05122005\J684796.raw

```
131 Val Val Leu Tyr Met Asp Pro Met Cys Leu Asp Ala Phe Pro Lys Leu
132                 165                 170                 175
133 Val Cys Phe Lys Lys Arg Ile Glu Ala Ile Pro Gln Ile Asp Lys Tyr
134             180                 185                 190
135 Leu Lys Ser Ser Lys Tyr Ile Ala Trp Pro Leu Gln Gly Trp Gln Ala
136         195                 200                 205
137 Thr Phe Gly Gly Gly Asp His Pro Pro Lys Ser Asp Leu Ile Glu Gly
138     210                 215                 220
139 Arg
140 225
143 <210> SEQ ID NO: 6
144 <211> LENGTH: 24
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Synthetic polymer
151 <400> SEQUENCE: 6
152 aatggggatc cagctcatta aagg                                          24
154 <210> SEQ ID NO: 7
155 <211> LENGTH: 24
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Synthetic polymer
162 <400> SEQUENCE: 7
163 atacatactt gtggaattcg ccac                                          24
165 <210> SEQ ID NO: 8
166 <211> LENGTH: 26
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Synthetic polymer
173 <400> SEQUENCE: 8
174 cacggatccc ttctgagttg aaaggc                                        26
176 <210> SEQ ID NO: 9
177 <211> LENGTH: 30
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: Synthetic polymer
184 <400> SEQUENCE: 9
185 tatgaattcc atctggatca aaaggcaatg                                    30
187 <210> SEQ ID NO: 10
188 <211> LENGTH: 30
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Synthetic polymer
195 <400> SEQUENCE: 10
```

RAW SEQUENCE LISTING DATE: 05/13/2005
PATENT APPLICATION: US/10/684,796 TIME: 10:06:30

Input Set : D:\Seqlist.txt
Output Set: N:\CRF4\05122005\J684796.raw

196 cagggatcca aagagttgaa attcacaagc 30
198 <210> SEQ ID NO: 11
199 <211> LENGTH: 27
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Synthetic polymer
206 <400> SEQUENCE: 11
207 acggaattct gcagcgactg ccgcgtc 27
209 <210> SEQ ID NO: 12
210 <211> LENGTH: 23
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Synthetic polymer
217 <400> SEQUENCE: 12
218 aggatccaga tgtcctacat ccc 23
220 <210> SEQ ID NO: 13
221 <211> LENGTH: 23
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Synthetic polymer
228 <400> SEQUENCE: 13
229 ggaattcatg gactgctgca cgg 23
231 <210> SEQ ID NO: 14
232 <211> LENGTH: 28
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Synthetic polymer
239 <400> SEQUENCE: 14
240 agagaattct cgagatgtcc tacatccc 28
242 <210> SEQ ID NO: 15
243 <211> LENGTH: 27
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Synthetic polymer
250 <400> SEQUENCE: 15
251 tgggaattcc taggacagca tggactg 27
253 <210> SEQ ID NO: 16
254 <211> LENGTH: 25
255 <212> TYPE: DNA
256 <213> ORGANISM: Artificial Sequence
258 <220> FEATURE:
259 <223> OTHER INFORMATION: Synthetic polymer
261 <400> SEQUENCE: 16
262 ctaggatccg ggccagccgg tcacc 25

RAW SEQUENCE LISTING DATE: 05/13/2005
PATENT APPLICATION: US/10/684,796 TIME: 10:06:30

Input Set : D:\Seqlist.txt
Output Set: N:\CRF4\05122005\J684796.raw

<210> SEQ ID NO: 17
<211> LENGTH: 29
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic polymer
<400> SEQUENCE: 17
gacggatccc cctgctgcac ggccttctg 29

<210> SEQ ID NO: 18
<211> LENGTH: 29
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic polymer
<400> SEQUENCE: 18
gacgaattcc cctgctgcac ggccttctg 29

<210> SEQ ID NO: 19
<211> LENGTH: 25
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic polymer
<400> SEQUENCE: 19
ctagaattcg ggccagccgg tcacc 25

<210> SEQ ID NO: 20
<211> LENGTH: 82
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic polymer
<400> SEQUENCE: 20

```
Leu Ile Lys Gly Pro Lys Gly Leu Gly Phe Ser Ile Ala Gly Gly Val
 1               5                  10                  15
Gly Asn Gln His Ile Pro Gly Asp Asn Ser Ile Tyr Val Thr Lys Ile
            20                  25                  30
Ile Glu Gly Gly Ala Ala His Lys Asp Gly Lys Leu Gln Ile Gly Asp
        35                  40                  45
Lys Leu Leu Ala Val Asn Asn Val Cys Leu Glu Glu Val Thr His Glu
    50                  55                  60
Glu Ala Val Thr Ala Leu Lys Asn Thr Ser Asp Phe Val Tyr Leu Lys
65                  70                  75                  80
Val Ala
```

<210> SEQ ID NO: 21
<211> LENGTH: 101
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic polymer
<400> SEQUENCE: 21

VERIFICATION SUMMARY DATE: 05/13/2005
PATENT APPLICATION: **US/10/684,796** TIME: 10:06:31

Input Set : **D:\Seqlist.txt**
Output Set: **N:\CRF4\05122005\J684796.raw**